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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/672,121	09/26/2003	Chia-Pin Chiu	884.465US2	7747	
21186 75	90 10/11/2006	10/11/2006		EXAMINER	
SCHWEGMA	N, LUNDBERG, WOE	DUONG, THO V			
P.O. BOX 2938					
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER	
			. 3744		
				DATE MAILED: 10/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

MI

	Application No.	Applicant(s)				
	10/672,121	CHIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tho v. Duong	3753				
The MAILING DATE of this communication appo Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 14 Ju	lv 2006.					
	action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.	, , , , ,					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)	<u> </u>					
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Patent Application					
Paper No(s)/Mail Date	6) Other:	•				

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DETAILED ACTION

Receipt of applicant's amendment filed 7/14/06 is acknowledged. Claims 1-18 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-8 and 13-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed subject matter of "non-curable viscous matrix" and "a distribution of carbon fibers within the viscous matrix material wherein orientation and location of carbon fiber relative to each other are movable upon flow of the matrix material" are not supported by the original disclosure. There is no description of the claimed subject matter in the original disclosure.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Webb (US 6,542,371). Webb discloses (column 2, lines 28-column 3, line 7) an electronic system that has a thermal interface material comprising a viscous matrix such as silicon oil thermal grease mixed with carbon fibers and thermally conductive particles such as aluminum or copper. Regarding to the limitations that has been rejected under 1st paragraph, Webb discloses (column 4, lines 12-26 and column 5, lines 9-50) that the matrix material is silicon oil, which is the same material as claimed. Therefore, it is capable of being a non-curable viscous matrix material. Furthermore, with respect to a distribution and location of carbon fibers relative to each other are movable upon flow of the matrix material and suspending a number of carbon fibers with a substantially random orientation in three dimension within the non-adhesive viscous matrix material, can be found in (column 4, lines 12-26; lines 42-65 and column 5, lines 9-50).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding applicant's argument of the improper of 102 (e) rejections because of common assignee, the argument is not persuasive. Applicant is reminded to see MPEP 2136.01 [R-3](II).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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McCullough (US 6,048,919) discloses a thermally conductive composite material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F (first Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Keasel Eric can be reached on 571-272-4929. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tho v Duong

Primary Examiner

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TD September 29, 2006